

Title (en)  
CHANNEL REUSE WITH COGNITIVE LOW INTERFERENCE SIGNALS

Title (de)  
KANALWIEDERVERWENDUNG MIT KOGNITIVEN SIGNALEN MIT GERINGER INTERFERENZ

Title (fr)  
RÉUTILISATION DE CANAL AVEC DES SIGNAUX COGNITIFS DE FAIBLE INTERFÉRENCE

Publication  
**EP 2351399 A4 20171011 (EN)**

Application  
**EP 09826903 A 20091116**

Priority  
• US 2009064575 W 20091116  
• US 27145408 A 20081114

Abstract (en)  
[origin: WO2010057086A2] A computing system in which devices communicate wirelessly as secondary users in a band assigned to primary users. The computers communicate using new signals developed to reduce disruption to primary users of the band. The new signals may be produced by sensing, or otherwise determining, signals used by primary users and developing signals using a modulation scheme or other signal parameters that provides little disruption to primary users. These techniques make available to users unused and/or underused portions of the radio spectrum, such as whitespaces between television channels. The new signals may be generated by software defined radios within the computing devices or by switching between modulation schemes supported by conventional wireless network interface card.

IPC 8 full level  
**H04L 1/00** (2006.01); **H04L 27/00** (2006.01); **H04W 16/14** (2009.01); **H04W 88/06** (2009.01)

CPC (source: EP US)  
**H04L 1/0003** (2013.01 - EP US); **H04L 27/0006** (2013.01 - EP US); **H04W 16/14** (2013.01 - EP US); **H04W 88/06** (2013.01 - EP US)

Citation (search report)  
• [XII] US 2007213084 A1 20070913 - BIRRU DAGNACHEW [US], et al  
• [XII] US 2002155811 A1 20021024 - PRISMANTAS JERRY [US], et al  
• See references of WO 2010057086A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010057086 A2 20100520; WO 2010057086 A3 20100910**; BR PI0919392 A2 20160119; CN 102217350 A 20111012; CN 102217350 B 20150701; EP 2351399 A2 20110803; EP 2351399 A4 20171011; EP 2351399 B1 20190213; JP 2012509035 A 20120412; JP 5537558 B2 20140702; KR 101650598 B1 20160823; KR 20110094003 A 20110819; RU 2011119467 A 20121120; RU 2529877 C2 20141010; US 2010124940 A1 20100520; US 8805427 B2 20140812

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**US 2009064575 W 20091116**; BR PI0919392 A 20091116; CN 200980145854 A 20091116; EP 09826903 A 20091116; JP 2011536556 A 20091116; KR 20117010811 A 20091116; RU 2011119467 A 20091116; US 27145408 A 20081114